What is claimed is:

- 1. Image storage screen or panel comprising a binderless needle-shaped stimulable phosphor of CsBr:Eu, wherein amounts of Eudopant are in the range of from 100 up to 400 p.p.m. versus CsBr, and a substrate, and wherein said substrate has a surface roughness of less than 2 μm and a reflectivity of more than 80%.
- 2. Image storage screen or panel according to claim 1, wherein said binderless needle-shaped stimulable phosphor has from 100 up to 200 p.p.m. of Eu-dopant versus CsBr.
 - 3. Screen or panel according to claim 1, wherein said reflectivity is at least 90%.
- 4. Screen or panel according to claim 2, wherein said reflectivity is at least 90%.
 - 5. Screen or panel according to claim 1, wherein said reflectivity is at least 95%.
 - 6. Screen or panel according to claim 2, wherein said reflectivity is at least 95%.
- 7. Screen or panel according to claim 1, wherein said substrate has a surface roughness of less than 1 μm .
 - 8. Screen or panel according to claim 2, wherein said substrate has a surface roughness of less than 1 μm .
- 9. Screen or panel according to claim 3, wherein said substrate has a surface roughness of less than 1 μm .
 - 10. Screen or panel according to claim 4, wherein said substrate has a surface roughness of less than 1 μm .

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- 11. Screen or panel according to claim 5, wherein said substrate has a surface roughness of less than 1 μm .
- 12. Screen or panel according to claim 6, wherein said substrate has a surface roughness of less than 1 μm .
- 13. Screen or panel according to claim 1, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 14. Screen or panel according to claim 2, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
- 15. Screen or panel according to claim 3, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 16. Screen or panel according to claim 4, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 17. Screen or panel according to claim 5, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
- 18. Screen or panel according to claim 6, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 19. Screen or panel according to claim 7, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
- 20. Screen or panel according to claim 8, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 21. Screen or panel according to claim 9, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
 - 22. Screen or panel according to claim 10, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.

- 23. Screen or panel according to claim 11, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
- 24. Screen or panel according to claim 12, wherein said substrate is an amorphous carbon layer, overcoated with a reflecting layer.
- 25. Screen or panel according to claim 13, wherein said reflecting layer is a metal layer.
 - 26. Screen or panel according to claim 14, wherein said reflecting layer is a metal layer.
- 27. Screen or panel according to claim 13, wherein said reflecting layer is an aluminum layer.
 - 28. Screen or panel according to claim 14, wherein said reflecting layer is an aluminum layer.
 - 29. Use of a screen or panel according to claim 1, in a system for computed radiograpy.
- 30. Use of a screen or panel according to claim 2, in a system for computed radiograpy.
 - 31. Use of a screen or panel according to claim 3, in a system for computed radiograpy.
- 32. Use of a screen or panel according to claim 4, in a system for computed radiograpy.
 - 33. Use of a screen or panel according to claim 5, in a system for computed radiograpy.
 - 34. Use of a screen or panel according to claim 6, in a system for computed radiograpy.

- 35. Use of a screen or panel according to claim 7, in a system for computed radiograpy.
- 36. Use of a screen or panel according to claim 8, in a system for computed radiograpy.
- 37. Use of a screen or panel according to claim 9, in a system for computed radiograpy.
 - 38. Use of a screen or panel according to claim 10, in a system for computed radiograpy.
- 39. Use of a screen or panel according to claim 11, in a system for computed radiograpy.
 - 40. Use of a screen or panel according to claim 12, in a system for computed radiograpy.
 - 41. Use of a screen or panel according to claim 13, in a system for computed radiograpy.
- 42. Use of a screen or panel according to claim 14, in a system for computed radiograpy.
 - 43. Use of a screen or panel according to claim 15, in a system for computed radiograpy.
- 44. Use of a screen or panel according to claim 16, in a system for computed radiograpy.
 - 45. Use of a screen or panel according to claim 17, in a system for computed radiograpy.
 - 46. Use of a screen or panel according to claim 18, in a system for computed radiograpy.

- 47. Use of a screen or panel according to claim 19, in a system for computed radiograpy.
- 48. Use of a screen or panel according to claim 20, in a system for computed radiograpy.
- 49. Use of a screen or panel according to claim 21, in a system for computed radiograpy.
- 50. Use of a screen or panel according to claim 22, in a system for computed radiograpy.
- 51. Use of a screen or panel according to claim 23, in a system for computed radiograpy.
 - 52. Use of a screen or panel according to claim 24, in a system for computed radiograpy.
 - 53. Use of a screen or panel according to claim 29, in mammographic applications.
- 54. Use of a screen or panel according to claim 30, in mammographic applications.
 - 55. Use of a screen or panel according to claim 31, in mammographic applications.
 - 56. Use of a screen or panel according to claim 32, in mammographic applications.